

Western Electric Co., Incorporated,  
Engineering Dept.,  
New York.

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METHOD OF OPERATION  
TRUNK CIRCUIT

Incoming from Outgoing Trunk Multiple and Outgoing to Answering Jack - Chief Operator's or Assistant Chief Operator's Desk - Full Mechanical Power Driven System.

GENERAL DESCRIPTION.

1. This circuit is used at a chief operator's desk for handling calls from the outgoing trunk multiple at the special "A" switch board and calls from the chief operator's desk to an answering jack at the special "A" board.

DETAILED DESCRIPTION.

2. When the plug of a cord is inserted in a multiple jack at the outgoing end of this trunk, the A relay operates, from battery over lead S, lighting the trunk lamps. When the CIAF key is operated to the talking position in answer to the call, the FL relay is operated from ground on a contact of the CIAF key. The operation of the FL relay causes the CO relay to operate, releasing the A relay and extinguishing the trunk lamps. When the key is restored to normal and the plug of the cord withdrawn at the outgoing end, all operated relays release restoring the circuit to normal.

3. When it is desired to hold the connection, the CIAF key is operated to the holding position. The FL relay is made slow in releasing, to hold the 47-A retardation coil connected across the trunk while the CIAF key is passing through its normal position, thus holding the connection.

4. To originate a call the CIAF key is operated to the talking position, operating the FL relay which in turn operates the CO relay. Ground on the armature of the FL relay, operates a relay at the outgoing end of this circuit over lead S, lighting the special "A" operator's line lamp.

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CIRCUIT REQUIREMENTS

OPERATE

NON OPERATE

RELEASE

178-AA  
(FL) Test .032 amp.  
Readj. .030 amp.

Test .0038 amp.  
Readj. .004 amp.

E380  
(A) Test .010 amp.  
Readj. .009 amp.

Test .0005 amp.  
Readj. .001 amp.

E381  
(CO) Test .018 amp.  
Readj. .011 amp.

Test .006 amp.  
Readj. .007 amp.

B-AHF-VL.  
1/26/22.

CHK'D.--WJT-CWP.

APPROVED - C. L. GLUYTER, G.M.L.